2016 BRIDGE INSPECTION REPORT

COMMISSION NUMBER: 15014

ROUTE 58 BUSINESS (RIVER STREET)
OVER
FALL CREEK

STRUCTURE NUMBER: 1901

Schwartz & Associates, Inc.
Consulting Engineers
Lynchburg-Roanoke

STRUCTURE INSPECTION REPORT – REGULAR

Agency ID: 1081901-000000000020204 **Date of Inspection:** 01/20/2016

Due: JANUARY | Inspection Frequency: 24 Months

County/City: CITY OF DANVILLE
Main Route: 58 BUSINESS
Lead Inspector: J. B. HANSEN
Feature Intersected: FALL CREEK
Facility Carried: RIVER STREET
Location: 0.07 OLD HALIFAX RD; 0.32 BRYANT AVE.

Signature of Lead Inspector _____

Signature & Date of City/Town Reviewer _____

PE Stamp of Reviewer

SPECIAL REQUIREMENTS **Fracture Critical** ☐ **Fatigue Prone Details** ☒ **Pin & Hanger** ☐

CONDITION RATINGS

Deck:	6
Superstructure:	6
Substructure:	6
Channel/Channel Prot.:	7
Culvert:	N

FIELD POSTING

Sign Legibility:	N
Sign Visibility:	N
Capacity Sign R12-1 (Tons):	N
Capacity Sign R12-5	
Single (Tons):	N
Semi (Tons):	N

TRAFFIC SAFETY FEATURES

Bridge Railings:	0
Transitions:	0
Approach Guardrail:	0
Approach Guardrail Ends:	0

YEAR PAINTED 1994

ELEMENT CONDITION STATE DATA

No.	Description	ENV	Unit	State 1	State 2	State 3	State 4	State 5	Total
*22	Concrete Deck – Rigid Overlay	Low	SF		8422				8422
*92	Reinforced Concrete Sidewalk	Low	LF	256					256
*107	Steel Open Girder – Coated	Low	LF	540	72	208	16		836
*210	Reinforced Concrete Pier Wall	Low	LF	129	2	5			136
*215	Reinforced Concrete Abutment	Low	LF	126	12	2			140
*234	Reinforced Concrete Pier Cap	Low	LF	125	4				129
*286	Slope – Unprotected	Low	EA	2					2
*295	Reinforced Concrete Wingwalls	Low	LF	74					74
*302	Compression Joint Seal	Low	LF	106	6				112
*311	Moveable Bearing	Low	EA	20	4				24
*313	Fixed Bearing	Low	EA	8					8
*334	Metal Bridge Railing	Low	LF			255	1		256
*357	Pack Rust	Low	EA		1				1
*358	Deck Cracking	Low	EA	1					1
*359	Soffit of Concrete Deck	Low	EA		1				1
*363	Section Loss	Low	EA		1				1
*701	Utilities	Low	EA	1		1			2
*702	Drains	Low	EA		1				1
*706	Soffit of Overhang of Concrete Deck	Low	EA				1		1

*-Changes since 01/30/2014

Attachments: **Structure Inventory Data Sheet** ☒ **Sketches** ☒ **Channel Profile** ☒
Cover Sheet of Rating Calculations ☒ **Other** ☐ **Clearance Sheet** ☐

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Agency ID: 1081901-000000000020204 **Date of Inspection:** 01/20/2016

County/City: CITY OF DANVILLE **Feature Intersected:** FALL CREEK
Main Route: 58 BUSINESS **Facility Carried:** RIVER STREET
Location: 0.60 MAIN STREET; 8.60 HALIFAX COUNTY
Lead Inspector: J.B. HANSEN
Additional Inspectors: B.A. MOSEBROOK, SET

DESCRIPTION	Three Continuous Steel Multi-Beam Spans with Concrete Deck, 128'-3" total length.
ORIENTATION	Abutment A on left looking downstream. Spans numbered 1-3 and Piers 1-2 numbered from Abutment A. Beams 1-8 numbered left to right facing Abutment B.
MISCELLANEOUS (Items which are structure specific and cannot be included in another section.)	★ - Denotes changes since last inspection. Bridge Coordinates N 36° 35' 12.36" W 79° 22' 44.80" Weather at time of inspection: Partly Cloudy, 38° F
SPECIAL REQUIREMENTS (Special Equipment needed or Special Inspections required such as: Fracture Critical, Underwater, Fatigue Prone, Scour Critical, Moveable Bridge, Segmental Concrete, Pin and Hanger, etc.)	Snooper and traffic control used to access fatigue prone details.
WORK DONE	None
STRUCTURAL ANALYSIS	2016 BrR 6.5 LRFR Rating (Controlling member: Beam 2) Type 3 – 53 tons Type 3S2 – 62 tons See attached load rating coversheet.
OVERALL CONDITION	**SATISFACTORY.** -Wearing Surface has cracks, scale & aggregate polish. -Expansion Dam at Abutment B has spalled concrete. -Bottom of deck and overhang has delaminated and spalled concrete. -Median and sidewalk has stripped waterproofing. -Sidewalk has cracks. -Railing has peeling paint, corrosion, corroded bolts and impact damage. -Drains are clogged -Waterline in Bay 1 has corrosion and is bowed. -Waterline support at Pier 1 has corrosion with section loss and sags. -Expansion joints filled with debris and leaks. -Bearing devices have corrosion, missing anchor bolts/nuts, and gaps between beams. -Paint system failure on exterior beam fascias, diaphragms, beam bearing areas and bearing assemblies. -Beams 1 and 8 have corrosion and pack rust at splice plates. -Substructure has cracks, scale, delamination, and spalled concrete. -Approach pavement has cracks, is breaking up and has potholes. -Approach guardrail has impact damage.
RECOMMENDATIONS	-Repair bearing assemblies that have gaps between bearing device and beam. -Replace leaking expansion joints. -Replace failed waterline support in Bay 1 at Pier 1. **RECOMMENDATIONS continues on next page.**

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RECOMMENDATIONS (CONT'D.)

-Clean, prepare and paint structural steel and railing.
-Repave approach pavement.
-Repair spalled expansion dam at Abutment B.
-Repair delaminated/spalled concrete in bottom of deck, overhang, and substructure.
-Replace corroded and damaged rail posts and corroded railing bolts.
-Replace missing anchor bolts/nuts in bearing devices.
-Replace damaged approach guardrail.
-Clean clogged deck drains.

DECK

Condition Rating: 6

Wearing Surface

Latex concrete overlay.

Wearing surface has hairline diagonal and transverse cracks as follows:

Lane		Span 1 (LF)	Span 2 (LF)	Span 3 (LF)
EBL	sealed	55	100	75
	unsealed	10	20	10
WBL	sealed	40	170 **See Photo #7**	100
	unsealed	5	25	25

★Wearing Surface has light scale with aggregate polishing over 30% of entire surface. **See Photo #8.**

★Expansion dam at Abutment B, right lane of EBL has 1 SF spalled concrete 1" deep. **See Photo #8.**

★Expansion dam at Abutment B has D-spalls 1" wide X 1" deep totaling 2 LF.

Top of Deck

Not Visible.

Bottom of Deck

Bottom of deck has areas of delaminated/spalled concrete in isolated locations (up to ½" deep) as follows: Span 1 – 3 SF; Span 2 – 4 SF; Span 3 - 6 SF

Overhang

★Overhang has delaminated/spalled concrete (up to 1" deep) as follows: Upstream side – 7 SF; Downstream side – 9 SF

Median

Waterproofing worn off of median for 40% of surface area.

Sidewalks

Waterproofing worn off of sidewalk for 40% of surface area.

Sidewalk on downstream side of structure has 6 transverse hairline cracks. Sidewalk on upstream side has 4 transverse hairline cracks.

Underside of sidewalk on both sides of structure has 7 transverse cracks (up to 1/16" wide) and are exhibiting efflorescence.

Railing

Railing has peeling paint throughout. **See Photo #9.**

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Railing (Cont'd.)	Several railing connection bolts at cantilevered connections on both sides of structure have severe corrosion and up to 30% section loss. ★Railing post at Abutment B is twisted 3/4" x full height with one flange bent 3/4" x 9". ★4th Railing post from Abutment A has previous corrosion with 75% section loss on lower 4" with a 2" X 4" corrosion hole at connection to bracket support. **See Photo #10.**
Drains	★Two (2) scuppers on the upstream side are clogged.
Utilities	Waterline bowed up 1' above support located 10' from Abutment A in Bay 1. **See Photo #11** Waterline at Abutment A encroachment has heavy corrosion and 1/8" pitting on bottom. **See Photo #12.** Waterline support in Bay 1 of Span 2 at Pier 1 is failing (sagging) due to severe section loss in web of channel. Large corrosion holes are present.
Expansion Joints	Expansion joints are partially filled with dirt and debris. ★Expansion joint material is leaking at Abutment A EBL for 3 LF and Abutment B EBL for 3 LF. **See Photo #8.**

SUPERSTRUCTURE	**Condition Rating: 6**
Bearings Devices	Masonry plates have up to 1/4" deep pitting due to previous corrosion. Bearing devices at abutments and piers have light to medium rust. Bearing devices for Beams 2 and 3 at Abutment A each have one missing anchor bolt. Bearing device for Beam 7 at Abutment A is missing 4 anchor bolt nuts. Bearing device for Beam 2 at Pier 2 has a 1/4" gap between rocker bearing and masonry plate. Bearing devices for Beams 1-3 at Abutment B have up to 1/16" gap between rocker bearing and masonry plate.
BEAMS	**FATIGUE PRONE DETAILS** **NOTE:** Hands on inspection of Fatigue Prone Details performed this inspection. Condition of Fatigue Prone Details considered in the general condition rating of Superstructure. See sketch for details. All riveted connections - Category D. *No deficiencies found.* Utility support fillet weld to web of beam – Category E. *No deficiencies found.* Utility support flange to flange fillet weld – Category C'

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General	*No deficiencies found.* ★Beams 1 and 8 have light rust along flanges and web throughout lengths. ★Beams 1 and 8 have up to 1/4" pitting in web 4" high x 1" wide adjacent to sidewalk support brackets at numerous locations throughout lengths. ★Beam 1 splice, 1st from Pier 1, has up to 3/8" pack rust between plate and bottom flange. ★Beam 8 splice, 2nd from Pier 1, has up to 1/2" pack rust between plate and bottom flange. **See Photo #13.** Sidewalk channel beams on upstream and downstream side of structure in Spans 1-3 have heavy rust scale on top flange, which has lifted sidewalk up to 3/8" at random locations. ★Sidewalk channel beams on upstream and downstream side have 1/8" deep pitting adjacent to railing posts pitting up to full height of web x ½" wide due to previous corrosion.
Diaphragms	*No deficiencies found.*
PAINT	Light to medium rust on isolated areas of structural steel at abutments and piers. ★Beams have isolated areas of peeling paint totaling approximately 5% of area.
SUBSTRUCTURE **ABUTMENTS**	**Condition Rating: 6**
Wings	★Wingwall on downstream side of Abutment B has a hairline vertical crack 6 LF long.
Backwalls	Backwall at Abutment A has 6 full-height vertical cracks (up to 1/16" wide). Backwall at Abutment B has 5 full-height vertical cracks (up to 1/16" wide). Top of backwall at Abutment A has 22 cracks (up to 1/16" wide). Top of backwall at Abutment B has 31 cracks (up to 1/16" wide). Waterline encroachment in Abutment A backwall in Bay 1 has heavy moisture seepage onto breastwall. Backwall at Abutment B in Bay 6 has 2 S.F. of spalled/delaminated concrete (up to ¾" deep) with exposed reinforcing steel and 60% section loss in rebar.
Bearing Seats	*No deficiencies found.*
Breastwall	Breastwall at Abutment A has 2 full height vertical cracks up to 1/16" wide. Breastwall at Abutment B has 3 full height vertical cracks up to 1/16" wide with efflorescence. ★Breastwall at Abutment B, Bay 7, has 2 SF of delaminated concrete.

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Weep Holes	Weep holes at both abutments filled with dirt and debris.
Footings	Not Visible.
Undermining	*No deficiencies found.*
Settlement	*No deficiencies found.*
PIERS	
Caps	Cap at each pier has one full height hairline vertical crack. ★Cap at Pier 1, upstream end, Span 2 side has 4 SF of delaminated/spalled concrete (1/2" deep). Cap at Pier 2 has heavily scaled concrete on upstream end.
Walls	Wall at each pier has one full height hairline vertical crack. ★Pier walls have light scale along lower 3'. Wall at Pier 1, upstream end has 4 SF of delaminated/spalled concrete (2" deep) with exposed reinforcement (20% section loss). **See Photo #14** Wall at Pier 2 has heavily scaled concrete and 1 SF of delaminated/spalled concrete (1" deep) with exposed reinforcement (20% section loss) on upstream end and 2 SF on downstream end.
Footings	*No deficiencies found.*
Undermining	*No deficiencies found.*
Settlement	*No deficiencies found.*

CHANNEL AND SLOPE PROTECTION	**Condition Rating: 7**
Channel	Channel Profile checked this inspection and no significant change found since 01/27/2010. See attached channel profile sketch.
Scour	*No deficiencies found.*
Embankment Erosion	*No deficiencies found.*

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Drift	*No deficiencies found.*
Vegetation	*No deficiencies found.*
Adequacy of Opening	Sufficient

FIELD POSTING	
Actual Posting	Not posted.
Legibility	N/A
Visibility	N/A
Advanced Warning Signs (In accordance with Traffic Engineering Division Memorandum TE-244 dated 5-7-94)	N/A

OTHER	
APPROACH PAVEMENT	Approach pavement at Abutment A is cracked 1/4" wide and breaking up for 20 SF adjacent to backwall with 4 SF of potholes (2" deep). **See Photo #15.** ★Approach pavement at Abutment B is cracked 1/4" wide and breaking up for 30 SF ★Approach median is 3" low at Abutment B.
TRAFFIC SAFETY FEATURES	
Bridge Railing	Substandard.
Transitions	Substandard.
Approach Guardrail	Substandard. ★Approach guardrail on upstream side of Abutment A has 20 LF of impact damage.
Approach Guardrail Terminal	Substandard.
OBJECT MARKERS	Object markers (Type 3) in place at Abutment A (WBL) run-on end of structure on upstream side.

PHOTO #1
Approach elevation looking from Abutment A to Abutment B.

PHOTO #2
Approach elevation looking from Abutment B to Abutment A.

PHOTO #3
Side elevation looking upstream.

PHOTO #4
Side elevation looking downstream.

PHOTO #5
General view of pier.

PHOTO #6
General view of abutment.

PHOTO #7

Sealed cracks in wearing surface, westbound lane, Span 2. Note scale.

PHOTO #8

Spalled concrete in expansion dam and leaking expansion joint at Abutment B.

PHOTO #9
Peeling paint on railing.

PHOTO #10
Corrosion on 4th railing post from Abutment A.

PHOTO #11
Waterline is bowed above support, Bay 1.

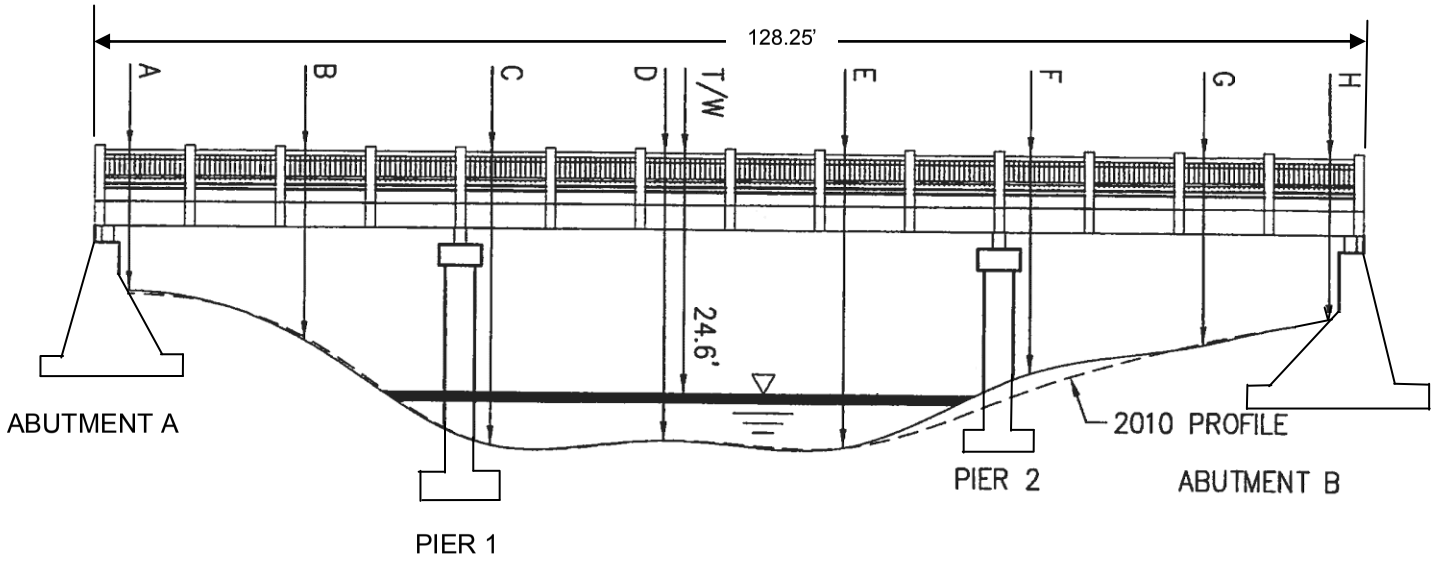
PHOTO #12
Corrosion and pitting in waterline, Abutment A.

PHOTO #13
Pack Rust on Beam 8 splice.

PHOTO #14
Spalled concrete on Pier 1 wall, upstream end.

PHOTO #15

Approach pavement at Abutment A is cracked, breaking up and has potholes.



Checked 2016 – No significant changes
JBH

ELEVATION VIEW
Looking Downstream

YEAR	POINT A	B	C	D	E	F	G	H
2014	14.5'	19.5'	---	---	---	22.4'	19.3'	16.9'
2012	NO MEASUREMENT TAKEN							
2010	14.8'	19.2'	30.2'	29.6'	30.2'	24.1'	19.1'	17.1'

Scale:
Horizontal – 1"= 19.358'
Vertical – 1" = 19.68'

Measurements taken from top of railing at upstream face of structure.

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UPSTREAM PROFILE – ROUTE 58 BUS.
(RIVER STREET) OVER FALL CREEK

BRIDGE NO. 1901

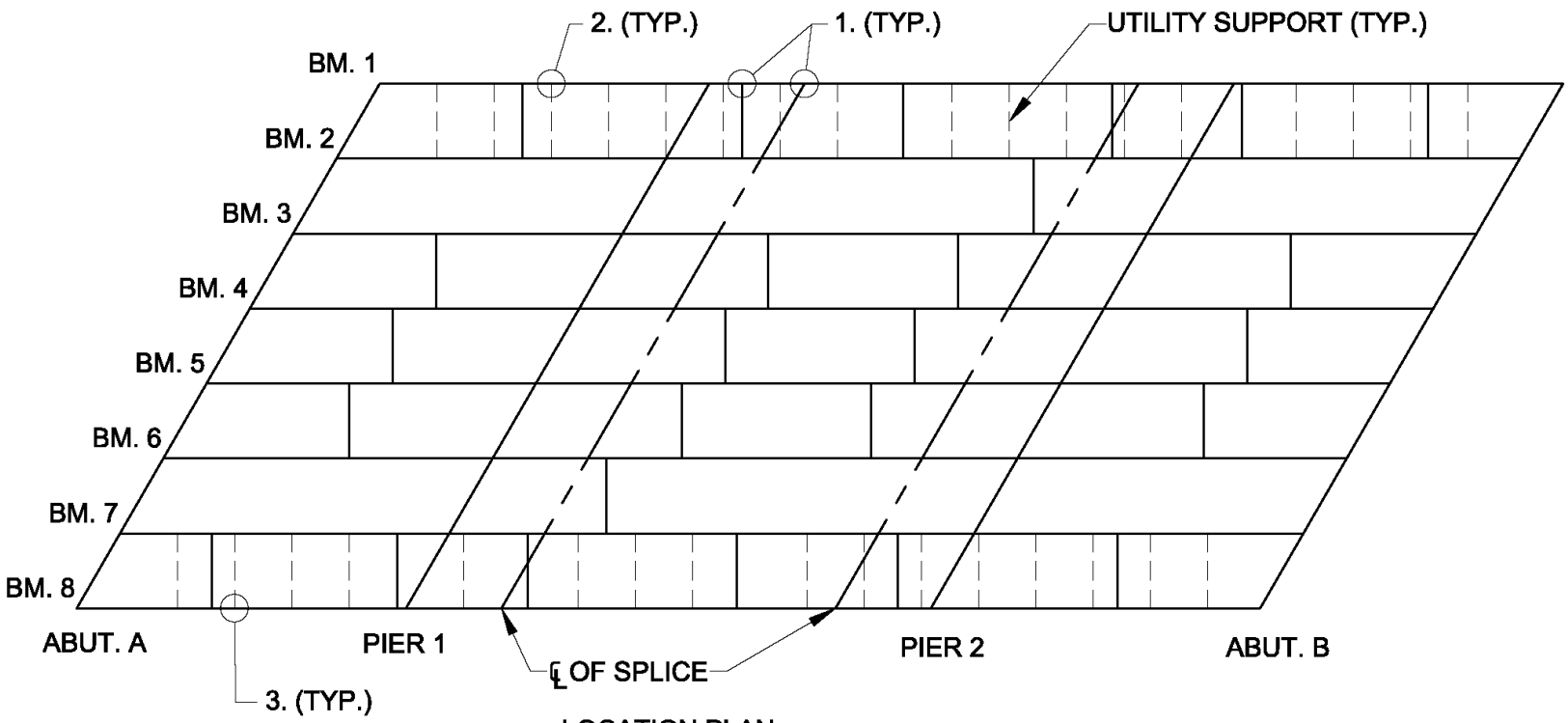
CITY OF DANVILLE, VIRGINIA

Calc'd By: MLF
Chk'd By: DKA

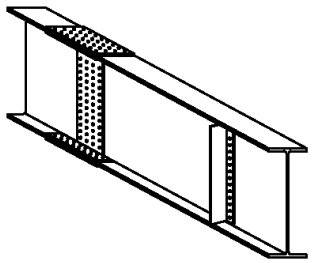
Inspection Date:
30-JANUARY-2014

Sheet No.:
CH1

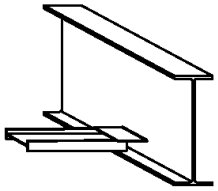
Fatigue Prone Details



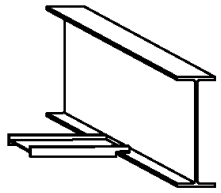
LOCATION PLAN



1. CATEGORY D
ALL RIVETED CONNECTIONS



2. CATEGORY E
UTILITY SUPPORT -
FILLET WELD TO
WEB OF BEAM



3. CATEGORY C'
UTILITY SUPPORT -
FLANGE-TO-FLANGE
FILLET WELD

Rte: 58 Business (River Street)
Over: Fall Creek
City: Danville
Struct. No.: 1901
Cadd Ref.: 1081901
Page No.: 1

VDOT Virginia Department of Transportation

Structure and Bridge

LOAD RATING SUMMARY FORM FOR STRUCTURES

Rte.: 58 (River Street)

Over: Fall Creek

VA Structure No.: 1901

FED. ID: 000000000020204

City: Danville

District: Lynchburg

Rated By: PLJ Date: 2/16/16

Checked By: APS Date: 2/16/16

VDOT Reviewer: _____

PE Seal

Adam Summers
2016.02.16 15:52:44 -05'00'

CALCULATION TOOLS AND METHOD USED: Bridge Rating 6.5 (LRFR)
BASIS FOR RATING:

	GVW (TONS)	RATING	CONTROLLING MEMBERS	CONTROLLING LOCATION	CONTROLLING FORCE
DESIGN LOAD		FACTOR			
HL-93 (INV)	N/A	1.044	Beam 2	Pier 1	Flexure
HL-93 (OPR)	N/A	1.353	Beam 2	Pier 1	Flexure
		TONS			
HS-20 (INV)	36	48	Beam 2	Mid Span 2	Flexure
HS-20 (OPR)	36	62	Beam 2	Mid Span 2	Flexure
LEGAL LOADS		TONS			
VA Type 3	27	53	Beam 2	Mid Span 2	Flexure
VA Type 3S2	40	62	Beam 2	Pier 2	Flexure
*LANE	40	81	Beam 2	Pier 1	Flexure
PERMIT LOAD		TONS			
BP-90	45	77	Beam 2	Pier 2	Flexure
BP-115	57.5	84	Beam 2	Pier 1	Flexure
SH VEHICLES		TONS			
NRL:	40	49	Beam 2	Mid Span 2	Flexure
SU4:	27	44	Beam 2	Mid Span 2	Flexure
SU5:	31	47	Beam 2	Mid Span 2	Flexure
SU6:	34.75	47	Beam 2	Mid Span 2	Flexure
SU7:	38.75	49	Beam 2	Mid Span 2	Flexure

*Not applicable for single spans less than and equal to 200 feet.

Schwartz & Associates, Inc.

Revised – 01-20-16

'ON' RECORD INVENTORY - Federal Items

Agency ID. : 1081901-000000000020204
Maint. Resp. : 108

SR : 75.80 SD/FO : ND

Bridge Key: 000000000020204

Identification

State (1)	: 51 Virginia	Struc Num (8)	: 000000000020204
District (2)	: Lynchburg	Location (9)	: 0.07 old Halifax Rd/0.32 Bryant Ave. ~~.60 Main /3.60 Hali count~~
Facility Carried (7)	: River Street	Rte. Signing Prefix (5B)	: 2 U.S. Numbered Hwy
Feature Intersected (6)	: Fall Creek	Route Number (5D)	: 00058
Record Type (5A)	: Route On Structure	Place Code (4)	: Danville
Level of Service (5C)	: 1 Mainline	County Code (3)	: Danville
Directional Suffix (5E)	: 0 N/A (NBI)	Mile Post (11)	: 9.87
Latitude (16)	: 36° 35' 12.36" ✓	Border Br. Code (98A)	: Not Applicable (P)
Longitude (17)	: 79° 22' 44.80" ✓	% Responsibility (98B)	: -2
		Border Bridge No. (99)	: _

Structure Type and Materials

No. Spans Main Unit (45)	: 3	No. Appr. Spans (46)	: 0
Main Span Material (43A)	: 4 Steel Continuous	Appr. Span Material (44A)	: 0 Other
Main Span Design (43B)	: 2 Stringer/Girder	Appr. Span Design (44B)	: 00 Other (NBI)
Deck Type (107)	: 1 Concrete-Cast-in-Place	Wearing Surface (108A)	: 3 Latex Concrete/Similar
Membrane (108B)	: 0 None	Deck protection (108C)	: 0 None

Age and Service

Year Built (27)	: 1948	Year Reconstr. (106)	: -1
Type of Service On (42A)	: 5 Highway-pedestrian		
Type of Service Under (42B)	: 5 Waterway		
Lanes On (28A)	: 4	Lanes Under (28B)	: 0
Detour Length (19)	: 1.86		
ADT (29)	: 18,000 ✓	Year of ADT (30)	: ~~2012~~ 2014
% Truck ADT (109)	: ~~6~~ 7		

Geometric Data

Length Max Span (48)	: 55.00 ✓	Structure Length (49)	: 128.25 ✓
Curb/Sdwlk Width Left (50A)	: 4.27	Curb/Sidewalk Width Right (50B)	: 4.17
Width Curb to Curb (51)	: 54.00 ✓	Width Out to Out (52)	: 65.67 ✓
Appr. Roadway Width (32)	: 54.00	Median (33)	: 2 Closed Med w/o Barri
Skew (34)	: 30.00° ✓	Structure Flared (35)	: 0 No flare
Horizontal Clearance (47)	: 54.00	Deck Area:	: ~~8,479.61~~ 8422.18
Vertical Clearance (10)	: 99.99		
Minimum Vertical Clearance Over Bridge (53)	: 99.99		
Minimum Vertical Underclearance Reference (54A)	: N Feature not hwy or RR		
Minimum Vertical Underclearance (54B)	: 0.00		
Minimum Lateral Underclearance Reference Right (55A)	: N Feature not hwy or RR		
Minimum Lateral Underclearance Right (55B)	: 0.00		
Minimum Lateral Underclearance Left (56)	: 0.00		

Inspection

		FREQ (91)	LAST INSP. (90)	NEXT INSP.
Regular Inspection	:	24	~~01/30/2014~~	~~01/30/2016~~
	REQ'D (92)	FREQ (92)	LAST INSP. (93)	NEXT INSP.
Fracture Critical	: N	-1	01-20-16	01-20-18
Underwater Insp.	: N	-1		
Other Special Insp	: N	-1		

Classification

Toll Facility (20)	: 3 On free road	Fed. Maint. Resp. (21)	: 04 City/Municipal Hwy Agenc
Functional Class (26)	: 14 Urban Other Princ	Owner (22)	: 04 City/Municipal Hwy Agenc
Historical Significance (37)	: 5 Not eligible for NRHP	Defense Highway (100)	: 0 Not a STRAHNET hwy
Parallel Structure (101)	: N No || bridge exists	Direction of Traffic (102)	: 2 2-way traffic
Temporary Structure (103)	: Not Applicable (P)	Highway System (104)	: 1 On the NHS
Nat. Truck Network (110)	: 1 Part of natl network	NBIS Length (112)	: Long Enough
National Base Net (12)	: 1 LRS Inv Rte (13a) : 0000000000	Sub# (13)	: 00

Condition

Deck (58)	: 6 Satisfactory ✓	Superstructure (59): 6 Satisfactory ✓	Substructure (60) : 6 Satisfactory ✓
		Channel/Channel Protection (61): 7 Minor Damage	Culvert (62) : Not Applicable

Load Rating and Posting

Design Load (31)	: 4 H 20	Posting Status (41)	: A Open, no restriction
Oper. Rtg. Method (63)	: ~~1 LF Load Factor~~ 3	Oper. Rtg. (64)	: ~~62.5~~ 62
Inv. Rtg. Method (65)	: ~~1 LF Load Factor~~ 3	Inv. Rtg. (66)	: ~~37.7~~ 48
Posting (70)	: 5 At/Above Legal Loads		

Appraisal

Bridge Rail (36A)	: 0 Substandard	Str Evaluation (67)	: 6
Transition (36B)	: 0 Substandard	Deck Geometry (68)	: 4 Tolerable
Appr. Rail (36C)	: 0 Substandard	Underclr., Vert. and Horiz. (69)	: N Not applicable (NBI)
Appr. Rail Ends (36D)	: 0 Substandard	Waterway Adequacy (71)	: 7 Above Minimum
Scour Critical (113)	: 5 Stable w/in footing	Approach Alignment (72)	: 5 Above Tolerable

Proposed Improvements

Type of Work (75)	: Not Applicable (P)	Improv. Length (76)	: 0.00	Future ADT (114)	: 19,500
Bridge Cost (94)	: $0.00	Year of Estimate (97)	: 2014	Yr. of Fut. ADT (115)	: 2035
Roadway Cost (95)	: $-	Total Cost (96)	: $0.00		

Navigation Data

Navigation Control 38	: Permit Not Required	Horizontal Clearance 40	: 0.00
Vertical Clearance 39	: 0.00	Lift Bridge Vertical Clearance 116	:
Pier Protection 111	: Not Applicable (P)		

'ON' RECORD INVENTORY - State Items

Agency ID : 1081901-000000000020204
Maint. Resp. : 108

Bridge Key: 000000000020204

Bridge Inventory

VA Str. Number (S4)	1901	Special Codes (S12)	P
Residency Code (S1)	Halifax - 18	Special Structure Code(S173)	
Jurisdiction Code (S2)	Danville - 108	Sketch Page Number (S172)	
Adj. Juris. Code(S10)		Original Plan Number (S13a)	089-20
Map Location (S195)		Original Std. Plan Number (S13b)	
Alt.Location (S193)		Recon. Plan Number (S14a)	
Parallel Structure (S192)		Recon. Stand. Plan No (S14b)	
Repl. Structure(S38)	N Does not Replace	Railroad Mile Post (S191)	

Hydraulics

Scour Critical Ind (S30)	N No Study Required	Tidal Indicator (S42)	
Scour Critical Remark (S31)		Number Drain Openings (S22)	0
Height of Opening (S24)	0	Drainage Area (S194)	
Drain Barrel Length (S25)	0	Drain Width (S23)	0
Drain Depth of Fill (S26)	0		

Appurtenances (S196)

Sign : N Sound Wall : N Ped. Fence : N

Ratings

Design Load High (S44)	4 H 20	Rated Capacity (Single) (S45)	~~49~~ 53
Stress Level (S47)	~~M Mid-Range~~ O	Rated Capacity (Semi) (S46)	~~57~~ 62
Stress Analysis Meth (S48)	~~M Fed-LF State-WS~~ R	Posted Status (S50)	
Computer File Name (S49a)	V: ~~K~~1081901	Posting Required (S55)	M No Maintenance Reqd
Last Run Date (S49b)	~~6/14/1996~~ 2/16/2016	Posted Date (S51)	~~1/1/1901~~
		Foot Bridge Posting (S169)	

Construction and Maintenance

Year Reconstructed (S27)	0	Project Status Code (S189)	
Type Construction (S39)	N - Bridge	Project UPC Code (S58)	0
Type Reconstruction (S40)		HBRRP Indicator (S41)	N Not Applicable
Year Last Painted (S94)	1994	Maint. Resp. - State (S15)	Danville - 108
Paint System (S186)	A		

Special Equipment (S64)

Ladder	Y	ManLift	N	Scaffold	N
Snooper	Y	Bucket Truck	N	Rigging	N
Boat	N	Pontoon	N	Platform Truck	N

Utilities (S190)

Water	Y	Sewer	N	Lighting	N
Gas	Y	Cable	N	Fiber Optic	Y
Electric	N	Phone	N	Other	N

Substructure Layout (S19, S20, S21)

Abutment A	Material	Design Type	Abutment B	Material	Design Type
Material and Type	1 Concrete	04 Curtain Wall	Material and Type	1 Concrete	04 Curtain Wall
Fnd/Piles Mat/Type	3 Firm Material	01 Spread Footing	Fnd/Piles Mat/Type	3 Firm Material	01 Spread Footing
Main Pier - Group 1; Count : 2			Appr. Pier - Group 1; Count : 0		
Material and Type	1 Concrete	01 Solid	Material and Type		
Fnd/Piles Mat/Type	1 Solid Rock	01 Spread Footing	Fnd/Piles Mat/Type		
Main Pier - Group 2; Count : 0			Appr. Pier - Group 2; Count : 0		
Material and Type			Material and Type		
Fnd/Piles Mat/Type			Fnd/Piles Mat/Type		
Main Pier - Group 3; Count : 0			Appr. Pier - Group 3; Count : 0		
Material and Type			Material and Type		
Fnd/Piles Mat/Type			Fnd/Piles Mat/Type		
Main Pier - Group 4; Count : 0			Appr. Pier - Group 4; Count : 0		
Material and Type			Material and Type		
Fnd/Piles Mat/Type			Fnd/Piles Mat/Type		
Main Pier - Group 5; Count : 0			Appr. Pier - Group 5; Count :		
Material and Type			Material and Type		
Fnd/Piles Mat/Type			Fnd/Piles Mat/Type		

Inspection

Inspection Key	EVOS
Posted Capacity Std. (S52)	
Posted Capacity Single (S53)	
Posted Capacity Semi (S54)	
Posting Sign Leg. (S170)	
Posting Sign Vis. (S171)	
Critical Features Class (S62)	
Maint. Repair Cost ($1000) (S56)	$ 0
Maintenance Fund Code (S57)	U Urban

Critical Recommendations

Outstanding Critical Recommendation (S176)	
Prev. Comp. Critical Recommendation (S179)	

Clearances On Structure

Roadway Width - Single/Left (S33)	26.00
Roadway Width - Right (S34)	26.00
Median Width (S35)	4.00

Roadway

VA Highway System Code (S185)	Primary	HTRIS Route Number (S8)		RNS Location	
On_Under Code: (F5A)	1	HTRIS Node Number (S7)	0	Latitude	36.5867666667
Lane of Route (S5)		HTRIS Node Offset (S9)	0.00	Longitude	-79.3791111111